

TITLE OF THE INVENTION

METHODS FOR TISSUE CULTURING AND TRANSFORMING ELITE INBREDS OF *ZEA MAYS* L.

ABSTRACT OF THE DISCLOSURE

The present invention is directed to methods for the tissue culture and transformation of elite inbreds of corn (*Zea mays* L.). More specifically, the present invention is directed to a method for initiating Type II callus from corn tissue. The present invention is also directed to a method for enhancing the integration of foreign DNA in the transformation of corn using a heat shock treatment. The present invention is further directed to a method of transforming elite inbreds of corn using *Agrobacterium*.

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